

# ISOPHTHALIC ACID



CAS Number: 121-91-5

Other Names: Benzene-1,3-dicarboxylic acid; m-Phthalic acid;  
m-Benzenedicarboxylic acid; Acide isophtalique

Formula:  $C_8H_6O_4$

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## PRODUCT INTRODUCTION

Isophthalic acid (IPA) is a non-toxic organic compound with the formula  $C_8H_6O_4$ . This colorless solid is an isomer of phthalic acid and terephthalic acid. These aromatic dicarboxylic acids are used as precursors (in the form of acylchlorides) to commercially important polymers. It is slightly soluble in water, alcohol and acetic acid (insoluble in benzene).

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## PHYSICAL AND CHEMICAL PROPERTIES

Isophthalic Acid	99.9 wt%
Moisture	0.08 wt%
Ash Content	15 Max. ppm
Fe	0.1 Max. ppm
Co	0.1 Max. ppm
Mn	0.1 Max. ppm
3CBA	5 Max. ppm
m-Toluic Acid	75 Max. ppm

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## APPLICATIONS

- Isophthalic acid (PIA) is majorly used for PET (PolyEthylene Terephthalate) copolymer, which is used in bottle resins and to a much lesser extent, for fibers. PIA (Purified Isophthalic Acid) reduces the crystallinity of PET, which serves to improve clarity and increase the productivity of bottle-making.
- Unsaturated polyester resins, where the addition of PIA improves thermal resistance and mechanical performance, as well as resistance to chemicals and water.
- Polyester/alkyd surface coating resins, where PIA increases resistance to water, overall durability and weatherability.

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## PACKAGING OPTIONS

Drums

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